

WHAT IS CLAIMED IS:

1. A module battery comprising:

a battery pack comprising:

at least one battery cell having a power generating element
5 sealed in a film and a pair of electrode tabs connected to the
power generating element; and

a packing case for accommodating the battery cell,

wherein the packing case is provided with an opening for
allowing the electrode tabs of the battery cell in the packing
10 case to extend out of the packing case.

2. A module battery comprising:

a plurality of battery packs each comprising:

at least one battery cell having a power generating element
15 sealed in a film and a pair of electrode tabs connected to the
power generating element; and

a packing case for accommodating the battery cell, wherein
the battery packs are stacked on each other; and

a battery pack holder for holding the stacked battery packs
20 together,

wherein each of the packing cases of the battery packs is
provided with an opening for allowing the electrode tab of the
battery cell in the packing case to extend out of the packing
case, and

25 the battery pack holder covers all the openings of the packing
cases to make the stacked battery packs air tight.

3. The module battery according to claim 2, wherein

space is provided between the battery packs adjacent to each
30 other.

4. The module battery according to claim 3, wherein

the space is formed to allow fluid to flow therethrough and at least upstream region of the space is formed to be wider than the other region of the space.

5 5. The module battery according to claim 3, wherein
the packing case of the battery pack is formed to have a cooling
fin extending into the space.

10 6. The module battery according to claim 1, wherein
the packing case is comprised of a pair of case halves which
sandwich and hold the battery cell.

15 7. The module battery according to claim 6, wherein
at least one of the case halves is formed to have a locate
pin, and the battery cell is provided with a through-hole to
which the locate pin is fitted.

20 8. The module battery according to claim 6, wherein
the case halves are symmetrically formed with respect to
a plane.

25 9. The module battery according to claim 2, wherein
each of the packing cases of the battery packs is provided
with a flange having sides to be aligned as the packing cases
are stacked.

30 10. The module battery according to claim 2, wherein
each of the packing cases of the battery packs is provided
with a flange serving as a spacer to provide space between the
adjacent battery packs as the packing cases are stacked.